

SATADOM D150SV



Features

- Zero mechanical interference
- S.M.A.R.T. & i-S.M.A.R.T. Supported
- Intelligent system for error recovery
- Excellent data transfer speed
- Built-in Pin7 VCC
- Mechanical design for anti-vibration

R: 35MB/s
W: 31MB/s

SATA II
3Gb/s

ECC &
Wear leveling

Thermal
sensor

S.M.A.R.T

Pin 7 VCC

Specifications

Connector Type	Standard 7 Pin SATA Connector
Flash Type	SLC (Single Level Cell)
Density	1GB, 2GB, 4GB, 8GB, 16GB
Transfer Mode	SATA II, SATA I, PIO 0~4, MDMA 0~2, UDMA 0~6
Sustained R/W Performance	Read : 35 MB/sec (max.) Write : 31 MB/sec (max.)

Environmental

DC Input	+5V DC \pm 5%
Power consumption (Max.)	Read : 155 mA Write : 168 mA Idle : 68 mA
Operating Temperature	0°C~+70°C (Standard Grade) -40~+85°C (Industrial Grade)
Storage Temperature	-55°C~+95°C
Humidity	Relative Humidity: 10-95%, non-condensing
Flash Endurance	100,000 program/erase cycles
MTBF	> 3,000,000 hours
Certification	CE, FCC, RoHS
Warranty	5 years

Special Features

Pin7 VCC	Supported (Refer to the following page)
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Mechanicals

Dimension (W x L x H)	20.9mm x 39.55mm x 7.9mm
Weight	5.5g \pm 1g
Vibration	7 Hz to 2K Hz, 3 axes
Shock	Duration: 0.5ms, 1500G, 3 axes

Health monitoring Tool

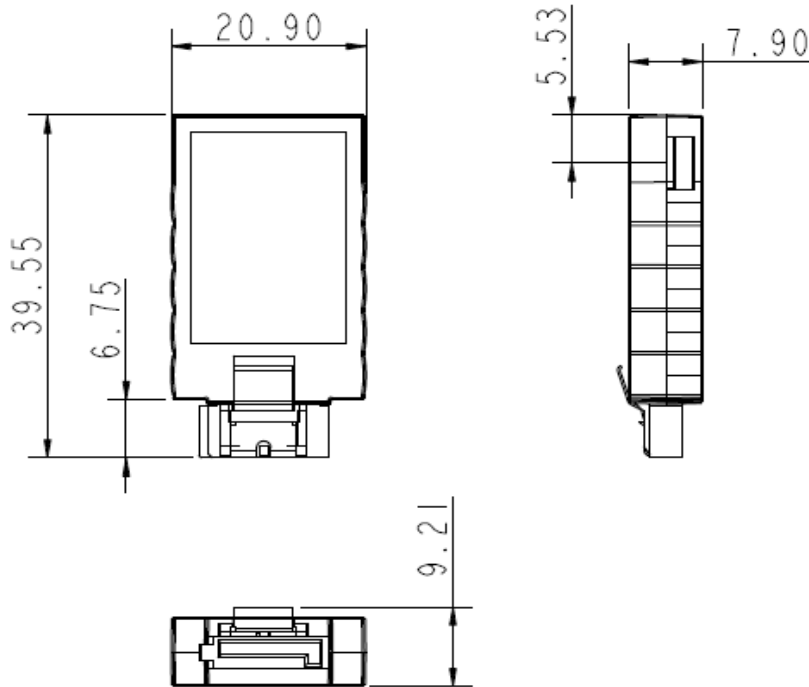
S.M.A.R.T.	Supported
i-S.M.A.R.T.	Supported (Utility for Windows, Linux)

Ordering Information

Capacity	Standard Grade	Industrial Grade
1GB	DES9-01GJ30A <u>C</u> 2SBF	DES9-01GJ30A <u>W</u> 2SBF
2GB	DES9-02GJ30A <u>C</u> 2SBF	DES9-02GJ30A <u>W</u> 2SBF
4GB	DES9-04GJ30A <u>C</u> 2SBF	DDE9-04GJ30A <u>W</u> 2SBF
8GB	DES9-08GJ30A <u>C</u> 2SBF	DES9-08GJ30A <u>W</u> 2SBF
16GB	DES9-16GJ30A <u>C</u> 2SBF	DES9-16GJ30A <u>W</u> 2SBF

The part number ends with "F" which is capable to support both power cable or smart Pin7 Vcc.

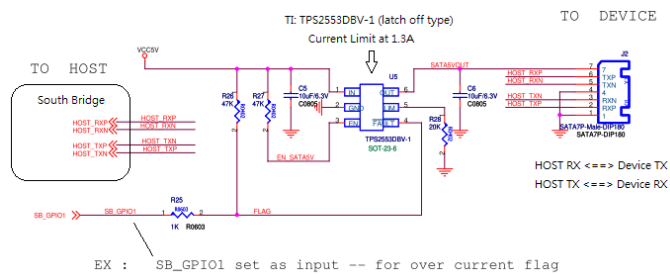
Mechanical Dimension



SATADOM D150SV mechanical dimensions
 (* Tolerance is ± 0.1 mm)

Pin7VCC MB Reference Circuit Design

Pin7 VCC Advantages



1. Customers **DO NOT** have to use the power cable for the severe condition.
2. Pin7 VCC can cost down the manufactured charge.
3. Followed by our suggested circuit, you can increase the options for SATA device, no matter for InnoDisk SATADOM or other DOM

*SATADOM D150QH with Pin7 VCC is designed with a fuse (polyswitch500mA, 6V) on Pin7's circuit

Recommendation for Pin7 VCC

InnoDisk suggests that customers **MUST** design their board with a fuse to prevent over current. In other words, customers are suggested **NOT** "directly" layout 5V VCC to SATA socket on board. Therefore, we strongly suggest our below circuit to protect MB or device, either by using "POWER SWITCH" or "JUMPER+FUSE".